## **CLAIMS**

## What is claimed is:

1	1.	A method comprising:	
2		capturing an intensity at a location on a surface in a single pixel of an	
3	image sensing array (ISA); and		
4		converting the intensity into a measurement of distance to the location	
5	relative to a	reference point independently of data from other pixels of the ISA.	
1	2.	The method of claim 1 wherein the ISA is a linear image sensor.	
1	3.	The method of claim 2 wherein the linear image sensor is one of a	
2	linear charge	e coupled device (CCD) and a photo diode array.	
1	4.	The method of claim 1 further comprising:	
2		comparing a plurality of captures of the intensity at the location under	
3	different cor	nditions to compensate for non-homogenous environments or surface.	
1	5.	The method of claim 1 further comprising:	
2		comparing a plurality of captures of the intensity at the location at	
3	different points in time to compensate for non-homogeneous environments or		
4	surfaces.		
1	6.	A method comprising:	
2		capturing an intensity at a location on a surface in an elementary group	
3	of pixels on	an image sensing array (ISA) without regard to intensity distribution	
4	within the group; and		

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5		converting the intensity into a measurement of distance to the location
6	independent	tly of data from other pixels on the ISA.
1	7.	The method of claim 6 wherein the ISA is a linear image sensor.
1	8.	The method of claim 7 wherein the linear image sensor is one of a
2	linear charge	e coupled device (CCD) and a photo diode array.
1	9.	The method of claim 6 further comprising:
2		comparing a plurality of captures of the intensity at the location under
3	different conditions to compensate for non-homogenous environments or surfaces.	
1	10.	The method of claim 6 further comprising:
2		comparing a plurality of captures of the intensity at the location at
3	different points in time to compensate for non-homogeneous environments or	
4	surfaces.	
1	11.	A method comprising:
2		capturing a spectral energy distribution returned from a location on a
3	surface in a single pixel of an ISA; and	
4		converting the spectral energy distribution into a measurement of
5	distance to t	the location relative to a reference point independently of data from
6	other pixels	of the ISA.
1	12.	A method comprising:
2		altering one of a spatial and optical relationship between an image
3	sensing array (ISA) and a surface;	

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4		observing a variation of an electrical signal at a single pixel on the ISA	
5	responsive to the alteration; and		
6		converting the variation to a measure of distance to a location on the	
7	surface relati	ive to a reference point, independently of data from other pixels of the	
8	ISA.		
1	13.	A method comprising:	
2		altering one of a spatial and optical relationship between an image	
3	sensing array (ISA) and a surface;		
4		observing a variation of an electrical signal at an elementary group of	
5	pixels on the	e ISA without regard to variations in electrical signals within the group	
6	responsive to the alteration; and		
7		converting the variation to a measure of distance to a location on the	
8	surface relat	ive to a reference point, independently of data from other pixels of the	
9	ISA.		